



Indiana Department of Education

Dr. Katie Jenner, Secretary of Education

To: Superintendents, Principals, School Leaders

From: Karrienne Polk-Meek, Director of Teaching and Learning

Date: January 7, 2022

Subject: Science Requirements for Core 40 Curriculum Model

Pursuant to IC 20-19-2-21, the Indiana State Board of Education (SBOE) adopted revised rules regarding science requirements for the Core 40 curriculum model. To earn a Core 40 diploma designation, students are still required to obtain:

- (1) two credits of Biology I,
- (2) two credits of Chemistry I or Physics I or Integrated Chemistry-Physics, and
- (3) two credits of any other Core 40 science course.

Acting on recommendations from a committee of content area experts, representing both secondary and postsecondary institutions, industry/community partners, and the Governor's Workforce Cabinet, SBOE approved in April 2019 expanding the list of courses that students can take to satisfy the **third** science course requirement.

Following recent changes to Career and Technical Education (CTE) coursework and the launch of the Next Level Programs of Study (NLPS), the course options have been expanded to satisfy the third science course required to earn the Core 40 diploma. The following NLPS courses, based on prior SBOE approval of equivalent courses, continue to be allowable for science credit. New NLPS courses are also listed in **bold** below. The Indiana Department of Education (IDOE) will convene an educator committee at a later date to consider whether additional classes should be added to this list.

Core 40 Science Courses

- 4570 AP Computer Science A
- 4568 AP Computer Science Principles
- 4854 IB Computer Science Higher Level
- 4856 IB Computer Science Standards Level
- 8118 Cambridge International AS Level Computer Science
- 8116 Cambridge International A Level Computer Science
- 4801 Computer Science I
- 5236 Computer Science II
- 5250 Computer Science III: Databases
- 5251 Computer Science III: Informatics
- 5249 Computer Science III: Software Development
- 5253 Computer Science III: Cybersecurity
- 5518 Aerospace Engineering



Indiana Department of Education

Dr. Katie Jenner, Secretary of Education

- 4818 Environmental Sustainability
- 4814/5644 Principles of Engineering
- 5008 Animal Science
- 5180 Natural Resources
- 5170 Plant and Soil Sciences
- 5229 Sustainable Energy Alternatives
- 5216 PLTW Human Body Systems
- 5217 PLTW Medical Interventions
- 5215 Health Science Education II: Physical Therapy
- **7183 Principles of Computing**
- **7352 Computer Science**
- **7185 Website and Database Development**
- **7184 Software Development**
- **7179 Cybersecurity Fundamentals**
- **7181 Cybersecurity Operations**
- **5644 Principles of Engineering**
- **5216 Human Body Systems**
- **5217 Medical Interventions**
- **7323 Physical Therapist Capstone**

Please contact the [Office of Teaching and Learning](#) with any questions.